## ABSTRACT

The present invention relates to a method, system and software for synchronising multiple threads which are using a resource. More particularly, but not exclusively,

5      the present invention relates to a method for synchronizing multiple threads (2), which are using an implementation module (6), for the replacement of the implementation module (6). The method includes creating a plurality of private variables (1) corresponding to the plurality of threads (2), setting a replace module variable (5), and when the replace module variable is set (10) performing the steps

10     of a) blocking (11) threads (12) from entering the implementation module (6); and b) when (13) all the private variables are in a reset state (14) replacing the implementation module (16). The use of locks within the performance path of the interface module is not required and threads and corresponding private variables are created and destroyed dynamically.

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